

AMENDMENTS TO THE CLAIMS

1. (cancel) A module for manufacturing a cured tire from a plurality of tire components; the module comprising:
 - a plurality of component appliers located at spaced locations along a predetermined path;
 - a mobile tire building trolley for movement along the predetermined path;
 - two detachable tire building drums for mounting on the movable trolley; and
 - a tire curing station having one tire mold for curing the assembled tire components mounted on one of the detachable tire building drums as the other detachable tire building drum on the mobile tire building trolley is having tire components applied.
2. (cancel) The module of claim 1 wherein one or more of the plurality of component appliers includes a means for forming the tire component at the location of the applier.
3. (cancel) The module of claim 1 wherein the applied components include, a liner, a pair of bead cores, a ply, a pair of sidewalls, a pair of chaffers, one or more belt layers, and a tread and optionally a wedge, apex, overlay, underlay, gum strips and elastomeric inserts.
4. (cancel) The module of claim 1 further comprises a means for transferring the detachable tire building drum to the tire mold.
5. (cancel) The module of claim 1 wherein the means for transferring includes a means for extracting the cured tire from the mold.
6. (cancel) The module of claim 1 wherein the tire curing station includes an induction curing means.
7. (cancel) The module of claim 1 wherein one or more of the component appliers applies strips of elastomer on the rotating tire building drum as the trolley moves along the predetermined path.

8. (cancel) The module of claim 7 wherein the plurality of component appliers includes one or more extruders to form the component as strips.
9. (cancel) A module for manufacturing a cured tire from a plurality of tire components; the module comprising:
 - a plurality of component appliers located at spaced locations along a predetermined path;
 - two mobile tire building trolleys for movement along the predetermined path;
 - three detachable tire building drums for mounting on the movable trolleys;
 - a tire curing station, having a pickup and transfer means for moving the detachable building drums, a tire curing mold for receiving and curing the assembled tire components on the tire building drums, and a cured tire removal station; and
 - wherein the detachable tire building drums are transferable to and from the first trolley, second trolley and the tire curing station.
10. (cancel) The module of claim 9 wherein one or more of the plurality of tire component appliers includes a means for forming the tire component at the location of the applier.
11. (cancel) The module of claim 9 wherein the applied tire components include, a liner, a pair of bead cores, a ply, a pair of sidewalls, a pair of chaffers, one or more belt layers, and a tread, and optionally an apex, wedge, overlay, underlay, gum strips, and elastomeric inserts.
12. (cancel) The module of claim 9 wherein the tire ~~[[cure]]~~ curing station further comprises a means for curing the assembled tire components in the tire mold.
13. (cancel) The module of claim 9 wherein the means for transferring includes a means for extracting the cured tire from the mold.
14. (cancel) The module of claim 9 wherein the tire curing station includes an induction curing means.

15. (cancel) The module of claim 9 wherein one or more component appliers applies strips of elastomer on the rotating building drums as the first and second trolley moves along the predetermined path.
16. (cancel) The module of claim 15 wherein the plurality of component appliers includes one or more extruders to form the component as strips.
17. (cancel) A module for manufacturing a cured tire from a plurality of tire components; the module comprising:
 - a plurality of tire component appliers located at spaced locations along a predetermined path;
 - a tire curing station having one tire mold for curing the tire and a means for curing located between one or more component appliers along the predetermined path.
18. (withdrawn) A method of manufacturing and curing a tire; comprises:
 - applying tire components at spaced locations along a predetermined path onto detachable tire building drums on one or more mobile tire building trolleys movable along the predetermined path;
 - placing the assembled tire components while mounted on one of the detachable building drums into a tire curing mold located along the tire and predetermined path;
 - curing the tire in the mold as the one or more trolleys with detachable building drums has tire components being applied.
19. (withdrawn) The method of claim 18 wherein the step of applying tire components includes the step of forming one or more components at the locations where the component is applied.
20. (withdrawn) The method of claim 19 wherein the step of forming includes the step of extruding strips of elastomeric rubber.

21. (withdrawn) The method of claim 18 further comprises the step of:
separating the cured tire from the detachable tire building drum after curing said tire.
22. (new) A module for manufacturing a plurality of cured tires from a plurality of tire components, the module comprising:
a plurality of tire building drums;
a plurality of first workstations each configured to apply at least one of the tire components on each of said tire building drums;
a plurality of second workstations each configured to apply at least another of the tire components on each of said tire building drums;
a cure station including a tire mold for curing the tire components applied on each of said tire building drums to form a corresponding one of the cured tires, said cure station, said first workstations, and said second workstations arranged along a path with said cure station centrally located between said first workstations and said second workstations, and at least one of said first workstations disposed an opposite side of said path from at least another of said first workstations; and
a first mobile tire building trolley configured to support each of said tire building drums in a detachable manner, said first mobile tire building trolley transporting each of said tire building drums along said path in proximity to said first workstations.
23. (new) The module of claim 22 wherein said second workstations are disposed on opposite sides of said path.
24. (new) The module of claim 23 further comprising
a second mobile tire building trolley configured to support each of said tire building drums in a detachable manner, said second mobile tire building trolley transporting each of said tire building drums along said path in proximity to said second workstations.
25. (new) The module of claim 24 further comprising:
means for transferring each of said tire building drums from said first mobile tire building trolley to said second mobile tire building trolley.

26. (new) The module of claim 24 further comprising:
a central transfer station located between said first workstations and second workstations, said central transfer station adapted to transfer each of said tire building drums from said second mobile tire building trolley to said cure station.
27. (new) The module of claim 24 wherein said first mobile tire building trolley and said second mobile tire building trolley each simultaneously support a corresponding one of said tire building drums.
28. (new) The module of claim 27 wherein said tire mold of said cure station supports a corresponding one of said tire building drums while said first mobile tire building trolley supports said corresponding one of said tire building drums and said second mobile tire building trolley supports said corresponding one of said tire building drums.
29. (new) The module of claim 24 wherein said second mobile tire building trolley transports each of said tire building drums along said path in a first direction away from said cure station and in a second direction toward said curing station.
30. (new) The module of claim 29 wherein at least one of said second workstations is configured to apply the corresponding at least another tire component when said second mobile tire building trolley transports each of said tire building drums along said path in said first direction.
31. (new) The module of claim 30 wherein at least one of said second workstations is configured to apply the corresponding at least another tire component when said second mobile tire building trolley transports each of said tire building drums along said path in said second direction.
32. (new) The module of claim 22 wherein said first mobile tire building trolley transports each of said tire building drums along said path in a first direction away from said cure station and in a second direction toward said curing station.

33. (new) The module of claim 32 wherein at least one of said first workstations is configured to apply the corresponding at least one tire component to each of said tire building drums when said first mobile tire building trolley transports each of said tire building drums along said path in said first direction.
34. (new) The module of claim 33 wherein at least another of said first workstations is configured to apply the corresponding at least one tire component to each of said tire building drums when said first mobile tire building trolley transports each of said tire building drums along said path in said second direction.
35. (new) The module of claim 22 wherein said path is a linear path.
36. (new) The module of claim 22 wherein said first mobile tire building trolley is configured to support each of said tire building drums while at least one of said first workstations applies a corresponding at least one of the tire components.
37. (new) The module of claim 36 wherein said first mobile tire building trolley is configured to rotate each of said tire building drums, when supported, while the at least one of said first workstations applies the corresponding at least one of the tire components.
38. (new) The module of claim 36 wherein said first mobile tire building trolley is configured to support each of said tire building drums while each of said first workstations applies the corresponding at least one of the tire components.